

SN 09/871,527

Docket No. S-94,792

In Response to Office Action dated November 2, 2005**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1. (currently amended) A process for high throughput screening of binding of ligands to macromolecules using high resolution powder diffraction data comprising:

producing a first sample slurry of a selected polycrystalline macromolecule material and a solvent, wherein said selected polycrystalline macromolecule material comprises a protein;

producing a second sample slurry of said selected polycrystalline macromolecule material, one or more ligands and said solvent;

obtaining a high resolution powder diffraction pattern on each of said first sample slurry and said second sample slurry; and,

comparing the high resolution powder diffraction pattern of said first sample slurry and the high resolution powder diffraction pattern of said second sample slurry whereby a change between the high resolution powder diffraction patterns of said first sample slurry and said second sample slurry indicates formation of a complex between said selected polycrystalline macromolecule material and at least one of said one or more ligands.

Claim 2. (cancelled) ~~The process of claim 1 wherein said macromolecule is a protein.~~

Claims 3-5. (cancelled)